

1908.

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THE TWENTY-FOURTH  
ANNUAL REPORT  
OF THE  
**Medical Officer of Health**  
FOR THE  
**Urban District of Cromer,**  
TOGETHER WITH  
THE REPORTS  
OF THE  
**SANITARY INSPECTOR AND SURVEYOR,**  
**THE FIRE BRIGADE,**  
**THE WATERWORKS DEPARTMENT,**  
AND THE  
**ELECTRICITY DEPARTMENT.**

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CROMER AND SHERINGHAM :  
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1909.



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# Cromer Urban District Council.

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RUTHVEN,

CROMER.

FEB. 6th, 1909

Gentlemen,

I have again the honour to present to you my Annual Report on the Health and Sanitary Condition of the Urban District of Cromer.

Cromer, geographically situated on the East Coast, has a direct Northerly aspect and covers an area of about 1,000 acres. The town stands on cliffs between 50 and 60 feet above the sea level and is surrounded by small hills which are undulating and well wooded. The climate is bracing and dry. The prevailing winds are S.W. & S. A large amount of sunshine is enjoyed.

The only industry carried on is that of fishing, the large majority of the inhabitants earning a living by letting lodgings and otherwise catering for visitors.

There is a deficiency of small cottages with a tendency to overcrowding. For the most part the cottages are good but some of the older properties leave much to be desired.

Great attention has been given to the condition of joint yards and they are now all cemented and well drained. In some of the older parts of the town there are some back to back properties

with insufficiency of air space, which I should like to see dealt with as opportunity arises.

The plans for all new houses or buildings of any kind are strictly supervised before being sanctioned.

The town has a constant Water supply from a reservoir situated on the top of a hill two and a half miles distant, to which the water is pumped from a deep well sunk in chalk four miles inland. The water is a very pure one but somewhat hard.

House drains and sewers are all efficient and are frequently flushed; they are provided with high ventilating shafts at frequent intervals.

The Sewage is received into settling tanks and the effluent discharged into the sea at high tide. The tanks are cleaned from time to time as required, the sludge being pumped into the effluent pipe and so conveyed out to sea.

The House Refuse, collected in covered vans, is carted two and a half miles into the country. In summer it is removed three times a week, in winter twice.

During the year a scheme for establishing a destructor was under discussion and it was agreed that both from a sanitary and economical standpoint it would be of great advantage to the town but as no suitable site could be obtained, the scheme had to be abandoned.

The Milk supply of the town is a good one, most of it coming in from the surrounding country. I have given great attention to the Dairies and Cow-sheds in the district, which were in a bad state and am pleased to report that they are all now in good order.

The Milkshops on inspection I found very satisfactory. I have had no complaint as to meat or other articles of food brought to my notice. There are no Slaughter-houses within the district.

## THE CROMER COUNCIL SCHOOLS

are well-situated with nice open surroundings. The Class rooms are large and lofty and well lighted and are ventilated by windows opening top and bottom. Gas is used for lighting and there are large open fire-places. The equipment is modern.

In the vicinity of the Class Rooms are Lavatories with glazed-ware Ranger Basins. There are plenty of them and they are well-kept. The sanitary conveniences consist of Urinals and Closets with automatic flush ; they are situated at the boundary of the playground and are quite sufficient and very satisfactory.

The water both for drinking and washing purposes is supplied from the Town Main. There is sufficient cloak room, but partitions ought to be placed between the pegs so as to prevent the children's clothes from coming into contact with each other—a fruitful source of the spread of vermin, etc. The school is kept thoroughly clean. The most marked defect is the absence of any arrangement for drying the children's boots or clothes. In the case of any infectious disease occurring in the Schools, the Schoolmaster is instructed not to admit any member of the infected family until such time as he shall have permission from me. The medical inspection of School children is to be undertaken by the County Medical Officer and two assistants. Up to the present no inspection has taken place.

Prompt notification of Infectious diseases is the rule here and this enables steps at once to be taken to prevent the spread of the illness. Most of the Scarlet Fever patients are removed as early as possible to the Isolation Hospital and immediately on their removal the room or rooms vacated by them are thoroughly disinfected with Formalin driven in under pressure. Diphtheria cases so far have been isolated at home but I hope in future that we shall have them removed to the Isolation Hospital where possible. Typhoid cases when they occur are treated at the Cottage Hospital or

Nursing Home. In every case I give instructions to the Sanitary Inspector as to the steps to be taken to prevent the spread of the disease. No voluntary or Compulsory notification of Phthisis has been adopted.

The Isolation Hospital is situated at Roughton three miles from the town and consists of two wards, containing eight beds, with lavatories and duty rooms attached. There is also a good administrative block, laundry &c., and a Thresh Disinfector.

The present Staff consists of a Nurse-Matron, handy-man and maid. Other nurses are got as required.

### THE POPULATION

estimated for the middle of the year in the usual way shows a decrease of 35, being 4105 as compared to 4140 in 1907.

### THE BIRTH RATE

is 15.5 per 1000, the lowest on record for the last ten years and compares very badly with the 1907 birth rate for the whole of England which was 26.3 per 1000, the lowest since 1837.

### THE DEATH RATE

is an exceptionally low one, being 8.5 per 1000, the lowest for the last ten years, but the

### INFANT MORTALITY

is enormous, 218 per 1000 birth, as compared with 121 per 1000, the Registrar General's Return for all England for 1908. Eight out of fourteen deaths of infants were certified as due to premature birth.

There were seven deaths of those over eighty.

## INFECTIOUS DISEASES.

There were only 11 cases notified as against 23 the previous year. Of the two cases of Diphtheria one was imported and the other on inquiry appeared to have been contracted in Norwich. There was one case of Typhoid which I suspect was due to mussels.

There were 7 cases of Scarlet Fever treated at the Isolation Hospital, the average duration of stay was six weeks.

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## VITAL STATISTICS.

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Area	...	...	1,007 acres
Population	...	...	4105
Inhabited houses	...	...	933
Rateable value	...	...	£40,182 15s. 0d.

### BIRTHS.

Males.	Females.	Total.
35	29	64

(One of which was illegitimate.)

Birth-rate, 15.5 per 1000 population.

### DEATHS.

Registered deaths	41.	Corrected	35.
Males.	Females.	Total.	
20	21	41	

Corrected death-rate, 8.5 per 1000 population.

## DEATHS AT DIFFERENT AGES.

Under 1 year	...	...	...	14
Over 1 „ and under 5 years	...	...	...	1
„ 5 years „	15	„	...	2
„ 15 „ „	25	„	...	2
„ 25 „ „	65	„	...	8
65 and upwards	...	...	...	14
			—	—
		Total	...	41
			—	—

## INFANT MORTALITY.

14 deaths in infants under 1 year.

= 218.7 per 1000 births registered.

= 3.4 „ of population.

## PHTHISIS.

There were 4 deaths from Pulmonary Tuberculosis.

= 0.9 per 1000 population.

= 97.5 per 1000 deaths.

## CANCER.

There were 4 deaths from Cancer.

= 0.9 per 1000 population.

= 97.5 per 1000 deaths.

## ZYMOTIC DISEASE.

There was 1 death.

Whooping Cough 1 = 0.24 per 1,000 population

## CAUSES OF DEATH.

Gastric Ulcer	...	...	...	1
Influenza	...	...	...	1
Premature Birth	...	...	...	7
Diabetes	...	...	...	1
Tetanus	...	...	...	1
Injuries	...	...	...	2
Senile Decay	...	...	...	6
Cancer	...	...	...	4
Phthisis	...	...	...	4
Heart Disease	...	...	...	2
Bronco-Pneumonia	...	...	...	2
Whooping Cough	...	...	...	1
Other Diseases	...	...	...	9
				—
				41
				—

## FACTORY and WORKSHOP ACT.

Under this Act I paid thirteen visits and found its regulations being well attended to. Notices were served in 6 cases.

During the year I have made frequent inspections of the town both by myself and with the Sanitary Inspector. I discovered that a public house had its water supply from a well and had a sample taken. The analysis proved the water was bad "polluted with an excess of organic matter, and on that account is not a wholesome drinking water." On my recommendation the Sanitary Committee ordered the well to be closed which has been done.

Another matter that I brought before you was the insanitary condition of some stables occupied by a Job-Master in Mount Street with the result that you ordered notices to be served to have them

put in order, before being occupied again. I found a coach-house without any drainage being used as a stable and men occupying a loft above as a bedroom, there being no ventilation. A notice was served which put a stop to it.

I also brought to your notice a Fish Shop in Suffield Park which was most insanitary, the premises being in no ways adapted for the trade. This was closed by your order.

The question of a Mortuary and Post Mortem Room has again been under discussion. It was proposed to make use of one of the rooms at the Storeyard which could have been done at a moderate cost and I am sorry that it has come to nothing. Another scheme is under discussion, so I hope to see one erected before the end of the year.

I have to thank you Gentlemen for the support you have given me in dealing with matters sanitary. I have again to tender my thanks to Dr. Colvin-Smith for acting for me when away and to Mr. Croome the Sanitary Inspector for the assistance he has given me.

I am, Gentleman,

Yours obediently,

R. EDDOWES LEGAT, M.B.

*Medical Officer of Health.*

# Vital Statistics of Whole District during 1908 and Previous Years.

Year.	Population estimated in Middle of each Year.	Births.				Total Deaths registered in the District.				Deaths of Residents registered in Public Institutions beyond the District.				Nett Deaths at all Ages belonging to the District.				
		Under 1 Year of age.		At all Ages.		Number.		Rate per 1,000 Births registered		Number.		Rate, †		Number.		Rate, †		
		Number.	Rate †	Number.	Rate †	6	5	7	8	6	5	47	13.5	9	10	11	12	
1898	3,473	79	22.7	9	113.9	47	13.5	...	...	6	5	...	...	41	...	11.8		
1899	3,577	76	21.2	15	197.3	48	13.4	...	...	5	7	...	...	43	...	12.0		
1900	4,010	92	26.0	2	21.7	41	10.2	..	..	7	11.7	...	...	34	...	8.5		
1901	3,753	86	22.9	11	127.9	44	11.7	...	...	1	4	...	...	43	...	11.4		
1902	3,942	92	23.5	6	65.2	37	9.4	...	...	4	5	...	...	33	...	8.4		
1903	3,976	74	18.6	12	162.1	45	11.3	...	...	5	6	...	...	40	...	10.0		
1904	3,986	84	21.0	8	95.2	36	9.0	...	...	6	1	...	...	30	...	7.5		
1905	4,030	94	23.3	6	63.8	35	8.7	..	..	2	2	..	..	34	...	8.9		
1906	3,973	96	24.1	9	93.7	39	9.2	...	...	8	12.5	...	...	37	...	9.2		
1907	4,140	77	18.5	8	103.8	52	12.5	...	...	4	8	..	..	44	...	10.6		
Averages for years 1898-1897.		3,886	85	22.1	8	104.4	42	10.8	...	...	4	6	...	...	37	...	9.8	
1908	4,105	64	15.5	14	218.7	41	9.9	..	..	6	...	...	...	35	...	8.5		

† Rates in Columns 4, 8, and 13, calculated per 1,000 of estimated population  
 Total Population at all ages, 3,781,  
 Number of Inhabited Houses, 839.  
 Average Number of Persons per House, 4.4  
 Area of District in Acres (exclusive of area covered by water), 1,007.

At Census of 1901.  
 Average Number of Persons per House, 4.4

## CASES OF INFECTIOUS DISEASE NOTIFIED.

Notifiable Disease.	At all Ages.	Age under 1.	Age 1 to 5.	Age 5 to 15.	Age 15 to 25.	Age 25 to 65.	65 and upwards.	Total removed to Hospital
Diphtheria ...	2	—	—	1	1	—	—	—
Erysipelas ...	1	—	—	—	—	1	—	—
Scarlet Fever	7	—	2	5	—	—	—	7
Enteric Fever	1	—	—	—	1	—	—	—
Totals ...	11	—	2	6	2	1	—	7

## CAUSES OF, AND AGES AT, DEATH.

Causes of Death.	All Ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.
Whooping-cough ...	1	1	.	...	...	...	...
Epidemic influenza	1	...	...	...	...	...	1
Phthisis (Pulmonary Tuberculosis) ...	4	...	...	...	2	1	1
Cancer, malignant disease	4	...	..	...	...	2	2
Pneumonia ...	2	2	..	...	...	...	...
Premature birth	8	8	...	...	...	...	..
Heart disease	2	...	...	1	...	...	1
Accidents ...	2	...	1	...	...	1	...
Senile decay ...	6	...	—	...	...	...	6
Diabetes ...	1	...	...	...	...	1	..
Tetanus ...	1	...	...	1	...	...	...
All other causes ...	9	3	...	...	...	3	3
All causes ...	41	14	1	2	2	8	14

## INFANT MORTALITY DURING THE YEAR 1908.

Cause of Death.	Under 1 Week.	3-4 Weeks.	Total under 1 Month.	5-6 Months.	6-7 Months.	8-9 Months.	Total Deaths under 1 Year.
All Causes certified.	7	2	9	2	1	2	14
Whooping Cough						1	1
Premature Birth	6	1	7				
Injury at Birth	1		1				
Atrophy, Debility, Marasmus		1	1				
Starvation				1			1
Pneumonia					1	1	2
Other Causes				1			1



# CROMER WEATHER REPORT

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## SIXTH ANNUAL REPORT.

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The record of this year may be briefly described as just as warm, much drier and rather less sunny than last year.

The record of the six years shows that temperature has varied about 1 degree, rainfall about  $3\frac{1}{2}$  inches, and sunshine about 300 hours, the latter being the difference between the first and fourth years, viz., 1903 and 1906. This comparison places this year in an intermediate position as regards temperature and sunshine but lowest as regards rainfall.

May and October again proved our very pleasant Spring and Autumn weather; May gave the maximum month's sunshine, 54 degrees mean temperature and only 14 rainy days. October gave an increase of 15 hours sunshine with 55 degrees mean temperature and 17 rainy days

### ATMOSPHERIC PRESSURE.

Mean pressure was slightly higher at 29.989 inches. The highest and lowest monthly means were those of October and March. The highest reading was 30.671 on February 7th and the lowest 28.740 on December 11th giving an extreme range of nearly 2 inches. The range of monthly mean pressure was very low at 10.36 0inch compared with 0.601 inch in 1907

## SHADE TEMPERATURE.

July and January gave the highest and lowest Dry Bulb Means which varied only slightly from August and February of last year. The highest mean maximum of 66.3 degrees was recorded in July and the lowest mean minimum was 31.4 degrees in January.

The extreme maximum was 81.2 on July 30th and August 3rd the nearest approach to that being 79.0 on October 2nd.

The warmest month was July and compared favourably with August, 1907.

		Dry Bulb	Maximum.	Minimum.	Mean of Maximum and Minimum.
1908	July	58.8	66.3	53.1	59.7
1907	August	58.3	67.1	51.8	59.5
1906	August	62.3	71.8	55.2	63.5
1905	July	62.9	70.9	56.9	63.9
1904	July	61.6	70.9	55.1	63.0

## SUNSHINE.

May gave the highest month's record and brought the April to June total practically equal to last year's figures. June gave 30 hours more than in 1907 and the highest day's record was 15.6 hours on June 25th.

## RAINFALL

The heaviest fall was 2.86 inches in July and compares favourably with 3.53 inches in October, 1907. A further increase in rainy days brought the total to 227. The heaviest fall in one day was 0.65 inch on July 13th.

W. H. ARCHER, *Observer.*

# Cromer Weather Report for 1908.

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1908.	Barometer.			Dry Bulb. Wet Bulb			RAINFALL.			SHADE TEMPERATURE			Sunshine.	
	Mean.		Mean.	Inches.		Maximun Day's Rain.	Date of Maximum		Total Rain.	Rainy Days.	Maximum	Minimum	Hours.	
	Deg.	Deg.	Deg.	Inches,	0.28	7	Inches	0.78	No. 19	Deg. 41.8	Deg. 31.4	Deg. 36.6	Total 66.4	
January ...	... 30.121	... 36.1	35.5	... 0.28	7	... 15	... 1.27	22	... 46.5	... 35.3	... 40.9	... 61.9		
February ...	... 30.000	... 39.3	38.1	... 0.25	15	... 1	... 1.77	23	... 44.8	... 34.4	... 33.6	... 128.5		
March ...	... 29.802	... 38.7	37.3	0.21	1	... 23	1.97	18	47.1	36.8	42.0	134.9		
April ...	... 29.925	... 42.5	40.3	0.40	23	... 7	1.25	14	61.2	46.8	54.0	169.5		
May ...	... 99.984	... 53.8	51.5	0.21	7	... 4	1.20	17	63.3	49.4	56.4	192.3		
June ...	... 30.081	... 55.7	53.2	0.41	13	2.86	1.5	15	66.3	53.1	59.7	170.6		
July ...	... 29.965	... 58.8	56.3	0.65	28	1.85	21	65.6	52.4	59.0	182.9			
August ...	... 29.961	... 57.7	55.0	0.52	21	1.99	19	63.4	49.5	56.5	145.8			
September...	... 29.951	... 55.7	53.4	0.40	17	1.15	17	61.1	48.6	54.9	122.2			
October ...	... 30.162	... 53.1	51.7	0.25	21	1.57	21	50.6	40.6	45.6	61.5			
November...	... 30.030	... 45.0	43.7	0.48	14	0.92	21	42.8	34.6	38.7	20.0			
December ...	... 29.896	... 38.3	37.8	0.24										
Totals ...	... 29.989	... 47.8	46.1	...	...	...	18.52	227	...	...	...	1486.5		
Means ...	... 29.943	... 47.5	45.9	...	...	...	1.54	19	54.5	42.7	48.6	...		
Year 1907...Totals ...	...	...	...	...	...	...	21.97	213	...	...	...	1666.8		
Means ...	...	...	...	...	...	...	1.83	17	54.7	42.5	48.6	...		

# Report of the Surveyor for the Year ending 31st December, 1908.

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*To the Chairman and Members of the Cromer Urban District Council.*

Gentlemen,

The following are the particulars of the Roads and Paths within the Urban District.

## MAINTAINED BY COUNCIL

	Lineal	Granite. Yards.	Tar Macadam. Yards.	Flints. Yards.	Granite Setts Yards	Unmade Yards	Total Yards.
Main Roads		5705	1403	440			7548
Other ,,		220	1685	3306	60	417	5688
Back ,,			355	469			824
		5925	3443	4215	60	417	14060

## UNADOPTED ROADS.

	Lineal	Flints. Yards.	Foundation only Yards.	Unmade Yards.	Total Yards
Roads	...	687	705	147	1539
(but Scavengered ,, by Council)		720	890		1610
Back Roads	...			1510	1510
		1407	1595	1657	4659

## FOOTPATHS MAINTAINED BY COUNCIL.

680 Yards of Gravel; 1,528 Yards of Tar Paving; 1,058 Yards of Shingle. Total, 3,266 Lineal Yards.

508 Tons of Granite (Leicestershire); 284 tons of Flints; and 173 tons of Marl have been used on these roads.

Two small improvements in Garden Street have been carried out, viz :- in front of Bay House, and Rust's Lawn.

Station Road has been made up to a granite standard for a further length, and will be completed early in the new year.

A report as to the conditions of the non-County Roads was prepared in November, but the necessary work postponed until after March.

## NEW ROADS.

Connaught Road (lower portion); Clare Road; Crawford Road; and Mill Lane Back (lower portion); have been made up by the Owner and taken over by the Council. The total length of these is about 520 yards.

Rosebery Road has also been improved by the Owners.

## PRIVATE STREET WORKS ACT.

The following Back Roads have been made up by direct labour during the year, from the plans, &c. prepared by Mr. Scott in 1906.

		£	s.	d.		£	s.	d.
St. Mary's Road Back,	Estimate	122	17	0	Cost	93	6	1
Vicarage Road	„	130	15	5	„	98	6	1
Cambridge Street	„	39	2	3	„	34	2	2
Cadogan Road	„	76	16	6	„	59	4	11
Runton Road	„	83	17	4	„	64	5	1
		£453	8	6		£349	4	4

The work of making up of Mount Street Back is also practically completed.

Plans, specifications, &c., were also prepared and approved making up Bond Street Back East, and the work carried out by direct labour at a cost of £12 3s. 8d. (Estimate £13 6s. 2d.)

### TAR PAINTING.

The tar painting of roads has been extended with most beneficial results. The area treated being Norwich Road 2,100 sup. yards; Overstrand Road 3,600 sup. yards; and Runton Road 4,060 sup. yards. In addition the length on the Holt Road treated first in 1906, was made good and extended.

The whole of the work was done by hand and cost (inclusive of everything) seven eighths of a penny per sup. yard; the cost per mile being £33 on Norwich and Overstrand Roads; and £63 on Runton Road owing to its width.

As the condition of all these roads is still good, the cost of the renewal of the tar next spring will be much less per sup. yard.

### BREAKING UP STREETS

The following permissions have been granted, viz :-

	1908	1907
The Gas Company	19	14
The Electricity Supply Company	18	4
The Water Department	7	3
To Builders and Others	17	4
	—	—
	61	25
	—	—
For Hoardings and Scaffolding	6	0

## SURFACE WATER DRAINAGE.

Plans have been prepared for laying a Surface Water Sewer in the lower end of Northrepps Road at an estimated cost of £73.

## SEWERAGE.

No extensions have been made, but owing to a flooding in the basements in New Street, plans have been made and approved by the Council, for laying an additional storm outlet from this district, down the cliffs to the sewer in the promenade. Advantage will be taken of this work to lay larger pipes than are at present required, so that this new sewer may, when necessary, be used as the outlet to the Beach for the surface water sewers of the District between Brook Street on the East, to Beach Road on the West. The provisional estimate for the work was £170, but as the Council have decided to do the work by direct labour, this estimate I can reduce to £140, of which the owners of the property flooded will contribute £50.

Two of the Septic Tanks were cleaned out early in the year at a cost of £38 1s. 4d. and the third is now receiving attention.

No additional Vent shafts have been erected.

## STEAM ROLLER.

The Steam Roller has worked  $119\frac{3}{4}$  days, compared to  $80\frac{1}{2}$  in the previous year.

## STREET WATERING ETC.

	1908.		1907.	
	Number of days Water Carts were used.	Gallons of water used.	Number of days Water Carts were used.	Gallons of water used.
April	2	14,800	4	88,800
May	13	228,950	18	308,050
June	27	473,650	17	255,700
July	22	405,350	27	476,800
August	25	346,700	26	416,950
September	11	143,500	24	403,500
October	4	32,400	0	
	104	1,645,350	116	1,949,800
Flushing Sewers & Gullies		84,600		163,800
Street Washing		16,200		11,400
Total No. of Gallons		1,746,150		2,125,000
Cost of Horse Hire in 1908 £72 11s. 3d. or 10d. per 1,000 gall. used				
,,    ,,    1907 £101 0s. 0d. „ 11 $\frac{1}{4}$ d. „ „ „				
,,    ,,    1906 £132 17s. 10d.,, 11 $\frac{1}{2}$ d. „ „ „				

## STREET SCAVENGING.

The wages paid for this work during the past three years has been as follows :-

1908, £128    1907, £142    1906, £163.

The cost is now reduced as low as possible, if the condition of the streets is to be maintained at the present high standard.

## STREET LIGHTING.

Four additional lamps have been erected during the year, and one has been taken down.

The total number of Gas Lamps is now 187, and Electric Arc Lamps 10.

### HACKNEY CARRIAGES.

Two inspections were held and the following Licences granted :-

		1908.	1907.	1906.
Carriage Licenses,	...	47	50	61
Driver's do.	...	48	52	66

Byelaws as to Omnibuses were approved by the Council on April 21st; and by the Local Government Board on June 4th; and under them the following licenses were granted.

Omnibuses,	...	9	Conductor's and Driver's	...	22
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The authorised stand was fixed on the west side of Prince of Wales Road by the Town Hall.

### FORESHORE.

The receipts of the foreshore have been as follows.

		1908.	1907.
Tents	...	£ 46 17 6	£ 47 10 3
Chairs	...	£ 14 17 6	£ 14 17 0
Machines	...	£ 23 5 0	£ 23 0 0
		£ 85 0 0	£ 85 7 3

### STOREYARD.

The whole of the exterior wood and iron work has been painted by the Council's workmen.

166 Tons of Tar Macadam have been manufactured, and 51 tons of Flag are in Stock; and 109 yards of Concrete Channel have been made.

## FIRE BRIGADE STATION.

The exterior wood and iron work has been painted by direct labour.

## COUNCIL OFFICES.

The work of converting Fountain House and Lodge into Public Offices was completed; and particulars were prepared and tenders invited for the necessary furnishing of the buildings, Messrs. A. H. Fox, Ltd., being the successful contractors.

The Offices of the Council were removed from the Town Hall to Fountain House in April.

## BURIAL BOARD.

The whole of the exterior wood and iron work has been painted by direct labour at both the new and old Cemeteries, and at the latter several necessary repairs were also done, including the renovation of the interior of the Chapel.

A much needed improvement has been made in the new Chapel, by the provision of a stove for heating purposes.

Owing to the decaying of much of the stonework at the new Cemetery, a portion has been experimentally treated with "Fluate," it is too early however to judge with what result.

A scheme to remedy the flooding of the main drive by surface water, at an estimated cost of £22 0s. 0d. has been prepared, but not yet finally approved.

## HOUSE SCAVENGING.

The question of a Refuse Destructor has again received the consideration of the Committee, and several reports have been prepared on the subject.

I have again the pleasure of reporting a decrease in the cost of the collection and carting to the tip; viz. £58; the figures for the past years having been :-

1906,	...	...	£ 519	19	2
1907,	...	...	£ 491	13	5
1908,	...	...	£ 433	11	5

### BUILDING BYELAWS.

There has been a slight improvement over the very small number of plans submitted in 1907, viz :- 19 sets, of which 17 were approved; compared to 10 (9 approved). These represent :

	1908			1907
	Plans submitted for	Erected or commenced	Plans submitted for	Erected or commenced
Dwelling Houses,	5	4	1	0
Alterations and Additions,	12	12	7	7
Outbuildings,	2	2	1	0
Motor Garages,	2	2	1	1
Other Buildings,	1	1	0	0
	—	—	—	—
	22	21	10	8
	—	—	—	—

I have the honour to be, Gentlemen,

Your Obedient Servant,

ROBERT CROOME,

*Surveyor*

# Report of the Sanitary Inspector for the Year ending December 31s, 1908.

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*To the Chairman and Members of the Sanitary Committee.*

Gentlemen,

Particulars of the work done in the Sanitary Department during the past twelve months will be found in the tables appended.

In October, a special inspection and report was made of the empty dwelling houses in the District, when their condition was found satisfactory. It may be of interest to record the fact that in no case, where a house had been vacant for less than twelve months, had a W.C. become untrapped through evaporation.

The Sanitary Provisions of the Public Health Acts Amendment Act, 1907, came into force within the District in November, after the required preliminaries.

A special inspection of the Sanitary Conveniences to the Licensed Premises in the town was made, and these were found to comply with the Act.

Reports under other Sections will be submitted to the Committee early in the new year.

I have the honour to be, Gentlemen,

Your obedient servant,

ROBERT CROOME.

## STATEMENT A.

Showing the work done by the Sanitary Inspector during the year ending December 31st, 1908.

House to House Inspections	...	...	...	...	362
Special Inspections and Investigations of Complaints	...	...	...	...	123
Re-Inspections, &c., to ascertain progress of Sanitary and Informal Orders	...	...	...	...	770
Inspections of Nuisances, &c., discovered	...	...	...	...	93
Visits in connection with Infectious Diseases	...	...	...	...	132
Inspections under the Factory and Workshops Acts	...	...	...	...	18
Re-Inspections under the Factory and Workshops Acts	...	...	...	...	10
Visits in connection with Dairies and Cowsheds	...	...	...	...	104
Visits to the Isolation Hospital	...	...	...	...	6
Visits to Caravans	...	...	...	...	2
Premises inspected in Sanitary Census	...	...	...	...	6
Re-Inspections &c., under Orders &c., done to same	...	...	...	...	9
				Total	1635
Premises Disinfected	...	...	...	...	11
Rooms Disinfected	...	...	...	...	13
Insanitary Houses reported to M. O. H.	...	...	...	...	0
Premises to which Smoke Test was applied	...	...	...	...	8
Committee Meetings attended	...	...	...	...	20
Letters (including Complaints) received	...	...	...	...	96
Letters (including School Notices) sent out	...	...	...	...	127
Preliminary Notices served	...	...	...	...	10
Legal Notices served	...	...	...	...	5
Defects found by House to House Inspections	...	...	...	...	44
"    "    "    Sanitary Census	...	...	...	...	7
Defects found by other Inspections	...	...	...	...	93
Complaints received at Office*	...	...	...	...	123
Total number of matters dealt with	...	...	...	...	267

\*Of these 69 were found on investigation to be unfounded.

## STATEMENT B.

Giving details of the 267 matters dealt with.

Overcrowding	...	...	...	...	...	4
Flushing Apparatus to W.C.'s defective			...	...	...	4
Sink and Bath Wastes defective	...	...	...	...	...	19
Collection and Storage of House Refuse			...	...	...	63
Sanitary Conveniences in bad condition			...	...	...	27
Rain Water, Guttering, &c., defective	...	...	...	...	...	4
Habitable Room with insufficient Window			...	...	...	1
"      "      "      " Ventilation			...	...	...	4
Removal of Swill	...	...	...	...	...	8
Removal of Manure &c.	...	...	...	...	...	8
Drains Choked	...	...	...	...	...	17
Drains Defective	...	...	...	...	...	10
Street Gullies	...	...	...	...	...	2
Defective Air Inlet to Drains	...	...	...	...	...	6
Defective Ventilation Shafts to Drains			...	...	...	9
"      "      "      " Sewers			...	...	...	2
"      "      "      " Soil Pipe to Drains	...	...	...	...	...	1
Fowls	...	...	...	...	...	1
Pig Keeping	...	...	...	...	...	1
Fish	...	...	...	...	...	7
Insanitary Premises	..	...	...	...	...	1
Caravans	...	...	...	...	...	2
Stables	...	...	...	...	...	4
Sanitary Condition of Yards	...	...	...	...	...	24
Basement Flooded	...	...	...	...	...	3
Sanitary Condition of Premises			...	...	...	8
Non-notifiable Diseases	...	...	...	...	...	1
Lime-washing of Premises	...	...	...	...	...	2
Insanitary Sleeping Room	...	...	...	...	...	1
Cowsheds & Dairies	...	...	...	...	...	9
Wells	...	...	...	...	...	3
Sundry complaints investigated			...	...	...	11

## STATEMENT C.

In connection with the Infectious Diseases Inspection, the following defects were found in the premises referred to in the certificates.

Stopper out of cleaning Eye to Trap	...	...	...	1
Rooms with insufficient Ventilation	...	...	...	1
Vent Shaft to Drains, unsuitable position for Outlet	...	...	...	1
				—
				3
				—

## STATEMENT D.

Showing the work done under the "Sanitary Census"

Premises visited	...	...	...	...	6
Defects discovered	...	...	...	...	7
Sink, Waste, Gully, defective	...	...	...	...	1
Rain Water guttering &c., defective	...	...	...	...	1
Habitable Rooms with insufficient ventilation	...	...	...	...	3
Drains choked	..	...	...	...	1
Defective Vent Shafts to drains	...	...	...	...	1

## STATEMENT E.

Showing the work under the Dairies, Cowshed, and Milkshop Order, 1885.

Dairies on Register	...	...	...	...	6
Cowsheds on Register	...	...	...	...	3
Paving to Cowsheds defective	...	...	...	...	3
Drainage to Cowsheds defective	...	...	...	...	3
Number of Inspections and Visits	...	...	...	...	104

## STATEMENT F.

Showing the Work under the Factory and Workshops Acts.

Factories on Register	...	...	...	...	8
Workshops on Register	...	...	...	...	39
Workplaces on Register	...	...	...	...	3
Number of Inspections	...	...	...	...	18
Number of Re-Inspections	...	...	...	...	10

## DEFECTS DISCOVERED.

Drainage Defective	...	...	...	...	1
Bad condition of Sanitary Convenience	...	...	...	...	2
Bakehouses requiring Lime-washing	...	...	...	...	2
Number of Notices served	...	..	...	...	6
Number of Notices received from H.M. Inspector				...	0

In One Case no Abstract of the Act was exhibited as required

FIRE BRIGADE.

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Report of Chief Officer for the Year ending 31st December, 1908.

*To the Chairman and Members of the Fire Brigade Committee.*

Gentlemen,

I have to report that during the past year two calls were received by the Brigade. The first to the Bath Hotel where a serious outbreak occurred in the kitchen premises. The alarm was given by the Electric call, and a quick turn-out effected (the Reel being despatched within four minutes of the call) resulting in the saving of the premises. The second was to premises on Prince of Wales' Road, but the fire was extinguished without the assistance of the Brigade. The Insurance Companies concerned paid the expenses in both cases. The outstanding expenses referred to in the last report have also since been paid.

The Committee after inspecting the Escapes of various makers decided to purchase one of Messrs. Shand Mason & Co.'s Self-standing Escapes at a cost of £100. The Escape was delivered on the 21st November, and there is every reason to think it will be most suitable for the requirements of the town. It will reach to a height of 50 feet which will command the majority of the windows in the town. It is heavier than many makes, but on the other hand there is no loss of power in balancing. It will be kept under cover in the Station.

The old Escape has been dismantled and the body converted into a Horse Hose-Cart. The existing ladder cart is being converted into a Hand Hose-Cart, and as soon as this is completed the Hose Reel will be removed for use in the Suffield Park District. Mr. Broadhurst has kindly offered a place for storage.

There has been no other alteration in the plant or appliances during the year.

The Water Committee having completed the indication of all the Fire Hydrants and Valves in the district, a complete list of them has been prepared and printed in the Drill Book which has been revised and brought up to date.

Application for Long Service Medals for 7 members of the Brigade has been made to the National Fire Brigade Union, and granted, and the Medals will be presented at the first convenient opportunity.

There has been no alteration during the year in the list of Parishes which the Brigade has agreed to attend. It is unfortunate that the neighbouring parish of Runton does not see fit to come in.

The conduct of the Brigade has been satisfactory, and I have pleasure in again acknowledging the assistance at all times rendered by the Lieutenants and the Fire Alarm Superintendent,

I am, Gentlemen,

Your obedient Servant,

J. K. FROST.

*Chief Officer*

ANNUAL REPORT on the ELECTRICITY UNDERTAKING  
of the CROMER URBAN DISTRICT COUNCIL  
for the year SEPTEMBER 1907-SEPTEMBER 1908.

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#### GENERAL.

On the 17th and 18th September last, we inspected the Undertaking and are glad to report that the plant in the Generating Station and outside is in good order and condition.

#### PROGRESS.

During the twelve months ending June 30th last, the number of consumers has increased from 336 to 339. During the year ending June 30, 1907, the number decreased from 343 to 336, a fall probably due to the use of a modified free wiring agreement requiring rent on the installation to be paid so long as the house is occupied. It is satisfactory to note that this decrease has not been continued during the past year and it is to be hoped that the canvassing efforts of the Electricity Staff may result in a substantial increase during the coming twelve months. The total equivalent number of 8 c.p. lamps connected has risen from 10,841 in June, 1907, to 12,047 in June, 1908, an increase of 11% as against an increase of 6½% during the previous year.

The following table shews the rate at which the number of consumers and the equivalent number of 8 c.p. lamps has increased since the commencement of the undertaking.

Year Ending	No. of Consumers	Equivalent No. of 8 c.p. Lamps	Yearly increase in total equivalent No. of 8 c.p. lamps	Yearly % increase in equivalent 8 c.p. Lamps	No. of equivalent 8 c.p. lamps per Consumer
June 1903	53	2576	...	...	49
June 1904	187	6734	4158	260%	36
June 1905	296	9044	2310	34%	31
June 1906	343	10178	1134	13%	30
June 1907	336	10841	663	6½%	32
June 1908	339	12047	1206	11%	36

### LOAD.

During the twelve months ending June 30th last neither the total number of units sold nor the maximum load on the generating plant has increased in the same proportion as the number of lamps connected. This is due to a considerable falling off in the demand for current by the big installations, hotels &c., which are old consumers, presumably caused by economical reasons, and to the large new installation at the Links Hotel where the current consumed per lamp connected has not been high.

The following table shews the manner in which the load and output have increased since the commencement of the undertaking.

Year Ending	Units Generated	Units Sold	Percentage of Units Generated	Units used in Works and unaccounted for	Percentage of Units Generated	Maximum Load in K.W.S.
June 03						Sept. 5, 03 57
June 04	54839	33039	60.3	21800	39.7	Aug. 27 104
June 05	94666	64825	68.5	29841	31.5	Aug. 26 116
June 06	105810	79040	74.7	26770	25.3	Aug. 25 122
June 07	113200	88455	78.1	24745	21.9	Aug. 24 131
June 08	122372	91089	74.4	31283	25.6	Aug. 22 145

It will be noticed that the maximum load has increased from 131 K.W. on August 24th, 1907, to 145 K.W. on August 22nd this year, an increase of  $10\frac{1}{2}\%$  which corresponds with the increase in the equivalent number of 8 c.p. lamps connected.

#### NEW GENERATING SET.

Although the increase in the maximum load and in the number of units generated points even more than last year to the desirability of soon putting down another Generating Set, we are still of the opinion that under the circumstances of the undertaking the risk of failure of supply, which we do not consider very great, should be taken, and the further expenditure postponed until it becomes absolutely necessary.

A new generating set even when absolutely necessary would not be required to work constantly or for long periods at a time, and with these conditions in view it would probably be advisable to consider a different class of engine, such as a Diesel oil engine which can be started and run for short periods without the starting losses incidental to the use of steam boilers. Such a course would

also obviate the necessity of increasing the boiler plant and steam piping &c.

### MAINS.

The leakage record charts shew that there have been very few serious faults on the mains during the last 12 months. There have been one or two faults in the wiring of installations, but apparently only one serious fault has occurred on the Mains system namely, on a Street Lighting cable in High Street in the latter part of August. This was caused by the insulation breaking down between an outer and the middle wire of a three core cable. The breakdown took place in the bitumen filled troughing and was probably due to an air bubble having interfered with the complete filling of the troughing.

### CONDITION OF GENERATING PLANT &c.

BOILERS. These still continue in sound working order and in good condition.

Messrs. Edmundsons have been experimenting with various classes of cheap coal on the Chaingrate Boiler No. 3 with a view to finding one which, while allowing the full duty to be obtained from the boiler is of sufficiently low price to bring the cost per unit generated down to a minimum. These experiments are not quite completed.

BOBY DETARTARISERS. The interiors of the boilers when opened for inspection and cleaning shew that there is very little impurity in the feed water. This proves that the Boby detartariser continues to work efficiently in softening the naturally hard Cromer water and providing a hot pure feed to the boilers.

BOILER FEED PUMPS. These continue in good working order and condition.

STEAM GENERATORS. Both steam engines continue in good condition and are working excellently. The generators also are in good working order.

MILKING BOOSTER BOOSTER BALANCER. Both in good condition and working excellently.

SWITCHBOARD. In good working order.

LEAKAGE PANEL. In good order. The recording Ammeter was showing a slight leakage, but too small to localise the fault.

BATTERY. This is now in good working order and condition

ARC LAMPS. The Flame Arc Lamps which have been sent back one at a time to the makers for adjustment, have now been returned to Cromer and are working satisfactorily we understand.

METALLIC FILAMENT LAMPS. We understand that the people in Cromer are chary of adopting metallic lamps because of their high initial cost as compared with carbon filament lamps. We think however that it should be impressed upon them that by their use about three times as much light as from carbon filament lamps can be obtained for the same quantity of electricity, and the economy in the long run is therefore considerable. An extended use of these lamps might enable the outlay on a new generating set to be postponed for some time, and the 50 c.p. size is peculiarly suitable for side street lighting at low cost.

O'GORMAN & COZENS HARDY.

# Waterworks Department

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## STATEMENT

As to the Waterworks Undertaking contained in the Report of the Committee submitted to the Council, on the 13th July, 1908

## CAPITAL OUTLAY.

Cost of Works to 31st March, 1908.

Purchase of Undertaking	...	...	62,294	16	10
(including £217 14 4 in hand for the Company's winding-up expenses).					
New Works	...	...	32,600	0	0
(£2 12 2 in hand)					
Extensions	...	...	1,400	0	0
Council's Costs of Act	...	...	254	0	0
			£102,546	16	10

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## LOANS.

## Interest and Charge for Loans

	Rate of Interest.	Date of Payment
£68,294 16 10	£3 $\frac{3}{4}$	1952
32,600 0 0	3 $\frac{5}{8}$	1963
1,400 0 0	3 $\frac{5}{8}$	1945
252 0 0	3 $\frac{3}{4}$	Repaid

## Annual Charge (irrespective of additional Loans required)

Until the year 1945	£4525 2 8	per annum
From 1945 until 1952	4456 11 2	do.
From 1952 until 1963	1368 0 8	do.

## WATER SUPPLY,

## Estimated supply—

Metton Works	1,000,000 gallons per day
Cromer ,,	200,000 do.
Total	1,200,000

Allowing 30 gallons per head the supply is sufficient for a population of 40,000.

## STORAGE.

## Storage provided—

No. 1. Aylmerton Reservoir	1,000,000 gallons
2. Cromer ,,	600,000 ,,
3. , , ,	120,000 ,,
4. Water Tower	50,000 ,,
	1,770,000

## MAINS.

Mileage of Mains			Miles	Yards
15-in.	...	...	...	250
12-in.	...	...	4	880
9-in.	...	...	...	872
6-in	...	...	3	224
4-in.	...	...	8	315
3-in.	...	...	2	956
				-----
		Total	18	1737
				-----

Abstract of Working Statement for the Year Ending  
31st March 1908.

## Quantity of Water supplied—

Metton Works	65,000,000	
Cromer ,,	1,000,000	
	-----	66,000,000 Gallons

Average number of Inhabited Houses  
supplied

1236 houses

Estimated population supplied  
(Equated for Season and non-  
season months).

7000 persons

Average daily supply for Domestic  
Purposes only 137,500Do. for other purposes 43,000  
-----

180,500 gallons

Do. per house for Domestic purposes  
only 110 do.

Do. per head do. 20 do.

Capital employed per million gallons £1554 per 1000 gallons £1.55

Tons Cost Average price per ton  
Coal used 287 £336 £1 3 5

## REVENUE ACCOUNT.

	£	£	Per 1,000 gallons.	% on Income
			PENCE	PENCE
GROSS INCOME ...	4957		18.03	107.18
LESS Empties and Allowances ..	332		1.20	7.18
		4625		100
EXPENDITURE.				
Pumping ...	549		2.00	11.87
Maintenance ...	189		.69	4.09
Main Repairs including Inspection ...	134		.49	2.90
Rates and Taxes ...	305		1.11	6.59
Management ..	216		.79	4.67
		1393	5.08	30.12
Profit ...		3232	11.75	69.88
LOAN CHARGES ...		4456	16.20	96.35
DEDUCT Profit ...		3232	11.75	69.88
CHARGE on District Rate ... ... ...		1224	4.45	26.47
COMPANY'S STATEMENT (5 year's average) ...				
INCOME... ... ...			18.18	100
CHARGE for Rates and Taxes ... ...			.19	1.03
TOTAL Expenditure ...			6.03	33.38
PROFIT ... ... ...			12.06	66.62

J. K. FROST,

*Clerk,*

